

WAKA KOTAHI NZ TRANSPORT AGENCY Must be presented to a CoF (heavy) inspecting organisation if not entered into LANDATA

| Heavy vehicle specialist inspector's or manufacturing | | tion's name (PRINT | | SWI |
|--|--|--|----------------------------------|---|
| Plate number (optional) | VIN/chassis numb | E 2 5 0 | 1 3 M 2 | 023113 |
| Make DOMETT | Component being | | Chassis | Load anchorage |
| Model (optional) | Log bolsters | | Towing connection | X Brakes |
| Certification category HVEK | SRT Swept path | | PSV stability PBS | PSV rollover |
| Description of work | | | | |
| CERTIFY TO SCHEDULE 5 OF LTR | 32015/5: NZ H | EAVY VEHIC | LE BRAKE SPE | CIFICATION. |
| CARRY OUT BRAKE CALCULATION | | | | |
| 5AFT LIVESTOCK | | | RE: 265 70 R19. | |
| FOR SYSTEM ARCHITECTURE, PL | | National Committee and the Antonia | RKSHEET & SCI | HEMATIC. |
| REASON FOR CERTIFICATION: | NEW TRAILER B | BUILD | | |
| Code/standard/rule certified to | | Component lo | | |
| LTR 32015/5 | | | 32 Tonnes GV | *************************************** |
| General drawing number(s) N/A | | | ****************************** | nt brake mass) |
| IN/A | | | 19 Tonne (Rea | ar brake mass) |
| Supporting documents | II 1244200 | | WC244206 | |
| | JH211209 TP52336 | | WS211206 | |
| Special conditions (optional) WARNING LAMP MUST ILLUMINAT EXTINGUISH IMMEDIATELY OR W | ************************************** | | | l EN |
| Certification expiry date (if applicable) N/A [UNLESS MODIFIED] | or | Hubodometer | reading (whichever comes | first) |
| Declaration | | | if different from inspector belo | JEH |
| I the undersigned, declare that I am the heavy vehicle inspector identified and I hold a current valid appointr certify that the above mentioned vehicle component's manufacture and installation, and this certification co | nent. I design, | Inspector's sig | nature | |
| in all respects with the Land Transport Rule: Vehicle S | tandards | | me (PRINT IN CAPS) | ID number |
| Compliance 2002 and my appointment. To the best o knowledge the information contained in the certificate | | WILLI | AM SINCLAIR | SWI |
| and correct. | | Date 06-Dec | -21 Numl | 800408 |
| CoF vehicle inspector ID (if applicable) | CoF vehicle inspecto | or signature (if app | icable) Date | |

All fields are mandatory unless otherwise stated.

New Zealand Government

Form ID

LT400

Version No. 12/20

trailer (full, semi-, centre-axle) with air brake system acc. to ${\tt UN/ECE-R.13.11}$

distribution: DOMETT TRAILERS

7A9E25013M2023113 SoDC: JH211209 LT400: SWI please note!

This brake calculation is made under consideration of -the legal precriptions mentioned above in the version valid at the time of making the program (V6.18.07.12). -the functional characteristics of our products as well as the data of the brake out of the test approvals of the axle manufacturers, and -the other vehicle data included in the brake calculation. Please check whether these data correspond to the actual vehicle data. Our conditions of delivery apply (particularly section 9.0). In any case we commend to do a braking harmonisation! WABCOBrake V6.18.07.12 db 31.08.2018

vehicle manufacturer: DOMETT TRAILERS

trailer model

: 5AFT LIVESTOCK

trailer type

: 5-axle-full-trailer

remarks

: air / hydraulic / VA suspension

WABCO TRAILER - EBS E

TRISTOP 3+4: T.14/24 [TSE1416HTLD64 ACTUALLY FITTED -

SEE PAGE 7 FOR PERFORMANCE DATA]

265/70 R 19,5

axle 1 + 2 + 3 + 4 + 5 : SAF, SBW 1937, TDB 0749 ECE,

| total mass axle 1 axle 2 axle 3 axle 4 axle 5 wheel base centre of gravity height | P in kg P1 in kg P2 in kg P3 in kg P4 in kg P5 in kg E in mm h in mm | | | 10200 2400 2400 1800 1800 1800 6550 1486 | | 1aden 35050 8000 8000 6350 6350 6350 |
|--|--|--|--|---|--|--|
| | | <u>axle 1</u> | axle 2 | axle 3 | axle 4 | axle 5 |
| | | 1 2 BZ 122.1 Meritor 20. 69 23.03 421 421 6.0 | 1 2 BZ 122.1 Meritor 20. 69 23.03 421 421 6.0 | Meritor T.14/24 69 23.03 421 | 1 2 BZ 119.6 Meritor T.14/24 69 23.03 421 421 6.0 | 1 2 BZ 122.1 Meritor 14. 69 23.03 421 421 6.0 |
| calculation: chamber pressure(rdyn min)pH a chamber pressure(rdyn max)pH a chamber press.(servo)pcha at pm piston force ThA at pm brake force(rdyn min)T lad. at brake force(rdyn max)T lad. at Brake force incl. 1 % rolling r proportion | t z=22,5%bar 6,5bar bar 6,5bar N pm6,5bar N pm6,5bar N | 2.3 2.3 6.4 7441 56364 56364 | 2.3 2.3 6.4 7441 56364 56364 | 2.0 2.0 4.3 4085 30837 30837 | 2.0 2.0 4.3 4085 30837 30837 | 2.0 2.0 4.3 4085 30837 30837 |
| <pre>braking rate z laden z = sum (TR)/PRmax</pre> | | 0.59 0.59 | | dyn min dyn max | | |

Trailer may only be operated in combination with trucks/tractors with ISO 7638 supply (5 or 7 polar).

brake diagram :

maximum pressure: 8.5 bar

axle 1:

valve 1: 480 207 0.. 0 WABCO or 480 207 2.. 0 EBS relay valve

brake cylinder: Meritor 20HSCLD65

axle 2:

valve 1: 480 207 0.. 0 WABCO or 480 207 2.. 0

EBS relay valve

brake cylinder: Meritor 20HSCLD65

axle 3:

valve 1: 480 102 0.. 0 WABCO EBS trailer modulator

brake cylinder: Meritor 1424HTLD64

axle 4:

valve 1: 480 102 0.. 0

WABCO

EBS trailer modulator

brake cylinder: Meritor 1424HTLD64

axle 5:

valve 1: 480 102 0.. 0

WABCO

EBS trailer modulator

brake cylinder: Meritor 14HSCLD64

test type III (zIII = 0.30) for rdyn min : axle1 axle2 axle3 axle4 axle5 at pm 3.6 bar => pcha in bar : 3.2 3.2 2.5 2.5 test type III (zIII = 0.06) for rdyn min : axle1 axle2 axle3 axle4 axle5 at pm 1.3 bar => pcha in bar : 0.8 0.8 0.8 0.8

0.8

0.2

0.3

0.4

0,5

0.6

0.7

0.1

0

0.2

0.3

0.4

0.1

0

0,5

0.6

0.7

0.8

Tansport Special. -brake calculation nc: TP 52336A date 28.07.2021 page 5 / 8

vehicle manufacturer: DOMETT TRAILERS trailer model : 5AFT LIVESTOCK : 5-axle-full-trailer trailer type

brake chamber and lever length :

axle 1: 2 x type/diameter 20. (Meritor) lever length 69 mm axle 2: 2 x type/diameter 20. (Meritor) lever length 69 mm axle 3: 2 x type/diameter T.14/24 (Meritor) lever length 69 mm axle 4: 2 x type/diameter T.14/24 (Meritor) lever length 69 mm axle 5 : 2 x type/diameter 14. (Meritor) lever length 69 mm

brake diagram :

valve :

480 207 0.. 0 WABCO EBS relay valve or 480 207 2.. 0 480 102 0.. 0 WABCO EBS trailer modulator

EBS input data ======

vehicle manufacturer: DOMETT TRAILERS trailer model : 5AFT LIVESTOCK trailer type : 5-axle-full-trailer

brake calculation no. : TP 52336A

tire circumference main axle : 2650 for rdyn max tire circumference auxiliary axle : 2650 for rdyn max

assignment pm / deceleration z: pm 0.8 bar z = 0.010(laden condition) 2.0 bar z = 0.1346.5 bar z = 0.600

| | contro | ol pressure pm | 6,5 | contro | ol pressure pm | 0.8 | 2.0 | 6.5 |
|------|----------------------|-----------------------|----------------------|--------------------|---------------------|-----|----------------|-----|
| axle | axle load unladen | bellow pr. unladen | brake pr. unladen | axle load laden | bellow pr. laden | | ake p lader | |
| 1 | 2400 | to be | 2.4 | 8000 | to be | 0.4 | 1.3 | 6.4 |
| 2 | 2400 | entered by | 2.4 | 8000 | entered by | 0.4 | 1.3 | 6.4 |
| 3 | 1800 | the vehicle | 1.6 | 6350 | the vehicle | 0.3 | 1.4 | 4.3 |
| 4 | 1800 | manufact. | 1.6 | 6350 | manufact. | 0.3 | 1.4 | 4.3 |
| 5 | 1800 | | 1.6 | 6350 | | 0.3 | 1.4 | 4.3 |
| | | | | | | | | |

The unladen values indicated in the above table are values for the basic parameter set. Higher unladen axle loads and liftaxles are automatically recognized and do not require separate adjustment. The above unladen axle loads must not be fallen below.

| axle 1 | axle 2 | axle 3 | axle 4 | axle 5 |
|----------------|----------------|----------------|----------------|----------------|
| axle load pcyl | axle load pcyl | axle load pcyl | axle load pcvl | axle load pcyl |
| 2400 2.4 | 2400 2.4 | 1800 1.6 | 1800 1.6 | 1800 1.6 |
| 2900 2.8 | 2900 2.8 | 2300 1.9 | 2300 1.9 | 2300 1.9 |
| 3400 3.1 | 3400 3.1 | 2800 2.2 | 2800 2.2 | 2800 2.2 |
| 3900 3.5 | 3900 3.5 | 3300 2.5 | 3300 2.5 | 3300 2.5 |
| 4400 3.8 | 4400 3.8 | 3800 2.8 | 3800 2.8 | 3800 2.8 |
| 4900 4.2 | 4900 4.2 | 4300 3.1 | 4300 3.1 | 4300 3.1 |
| 5400 4.5 | 5400 4.5 | 4800 3.4 | 4800 3.4 | 4800 3.4 |
| 5900 4.9 | 5900 4.9 | 5300 3.7 | 5300 3.7 | 5300 3.7 |
| 8000 6.4 | 8000 6.4 | 6350 4.3 | 6350 4.3 | 6350 4.3 |

data sheet to ECE vehicle type-approval certificate concerning braking equipment: according to ECE R13 annex 11

```
SBW 1937
                                                                brake lining: Jurid 539
axle 1 : reference axle: SAF
        test report :
                                TDB 0749 ECE
                                                                date : 20130930 30.09.2013
                                                                brake lining: Jurid 539
axle 2 : reference axle: SAF
                                SBW 1937
                                 TDB 0749 ECE
                                                                          : 20130930 30.09.2013
        test report :
                                                                date
                                                               brake lining: Jurid 539
axle 3 : reference axle: SAF
                                SBW 1937
                                 TDB 0749 ECE
                                                               date : 20130930 30.09.2013
        test report :
axle 4 : reference axle: SAF
                                 SBW 1937
                                                               brake lining: Jurid 539
                                TDB 0749 ECE
                                                                date : 20130930 30.09.2013
        test report :
                                                               brake lining: Jurid 539
date : 20130930 30.09.2013
axle 5 : reference axle: SAF
                                 SBW 1937
        test report :
                                 TDB 0749 ECE
calc. verif. of residual (hot) braking force type III
(item 4.2.1 of appendix 2 to annex 11)
                                                T = 26.2 \% Fe
axle 1
                 (rdyn 421 mm)
                 (rdyn 421 mm)
                                                T = 26.2 \% Fe
axle 2
                                                T = 16.9 % Fe
axle 3
                 (rdyn 421 mm)
                                               T = 16.9 \% Fe
axle 4
                 (rdyn 421 mm)
                 (rdyn 421 mm)
                                               T = 16.9 \% Fe
calculated actuator stroke in mm
(item 4.3.1.1 of appendix 2 to annex 11)
                 (sp = 58 mm)
axle 1
                                             s = 39 \text{ mm}
axle 2
                  (sp = 58 mm)
                                             s = 39 \text{ mm}
                                             s = 39 \text{ mm}
                  (sp = 56 mm)
axle 3
                                             s = 39 \text{ mm}
axle 4
                  (sp = 56 mm)
                                              s = 39 \text{ mm}
axle 5
                  (sp = 56 mm)
average thrust output in N at pm = 6,5 bar (however max. pcha = 7,0 bar)
                                            ThA = 7441 N
axle1
                                            ThA = 7.141 N
axle2
                                            ThA = 4085 N
axle3
                                            ThA = 4085 N
axle4
axle5
                                            ThA = 4085 N
calc. residual (hot) braking force in N
(item 4.3.1.4 of appendix 2 to annex 11)
                 (rdyn 421 mm)
                                              T = 44004 N
axle 1
axle 2
                 (rdyn 421 mm)
                                              T = 44004 N
                                              T = 24161 N
                 (rdyn 421 mm)
axle 3
                                              T = 24161 N
axle 4
                 (rdyn 421 mm)
                                              T = 24161 N
axle 5
                  (rdyn 421 mm)
                                          basic test
                                                       type III
                                          of subject
                                                       (calculated)
                                          trailer (E)
                                                       residual
braking rate of the vehicle
                                                       (hot)braking
(item 4.3.2 to appendix 2 to annex 11)
                                              0.60
                                                          0.47
                                                      >= 0,4 and
required braking rate
(items 1.5.3 and 1.7.2 to annex 11)
                                                      >= 0,6*E (0.36)
                                             T = 44004 N
axle 1
                  (rdyn 421 mm)
                                             T = 44004 N
axle 2
                  (rdyn 421 mm)
axle 3
                  (rdyn 421 mm)
                                              T = 24161 N
                  (rdyn 421 mm)
                                              T = 24161 N
axle 4
                                              T = 24161 N
axle 5
                  (rdyn 421 mm)
                                          basic test
                                                       type III
                                          of subject
                                                        (calculated)
                                          trailer (E) residual
braking rate of the vehicle
                                                        (hot)braking
(item 4.3.2 to appendix 2 to annex 11)
                                              0.60
                                                         0.47
```

required braking rate

(items 1.5.3 and 1.7.2 to annex 11)

>= 0,4 and

 $>= 0.6 \times E (0.36)$

spring parking brake

braking rate

zf = sum (Tf)/P + 0,01

| no of TRISTOP-actuators per axle line KDZ TRISTOP-actuator type lever length lBh in mm stat. tyre radius rstat max in mm | 2 | |
|--|------------------------|------------------------|
| at a stroke of spring brake TFZ in N sp.brake chamber no Meritor release pressure pLs in bar | 30 6160 4 | 30 6160 4 4.8 |
| <pre>calculation:</pre> | | |
| <pre>ratio until road iFb = lBh*Eta*C*rBt/(rBn*rstat)</pre> | 3.9674 401 48188 | |

Test of the frictional connection required by the parking brake

zf laden

minimum wheelbase/minimum supporting width min Ef necessary to fulfil the regulations

min Ef = E * (1 - PR/P + zferf * h/E) / (1 - zferf / (fzul * nf/ng))

min Ef = 5063 mm for E = 6450 mmmin Ef = 5132 mmfor E = 6550 mm============

```
min Ef =
                         minimum distance between front axle(s) (trailer) or support (semitrailer)
and the rear axle(s) (resultant of the bogie)
E
                         wheel base
              0.80 maximum permissible frictional connection required
fzul
         =
        = 0.18 maximum required braking ratio of the parking brake

= 2277 mm height of center of gravity - laden

= 19050 kg maximum bogie mass - laden

= 35050 kg maximum total mass - laden
zferf =
h
```

0.290

PR

2 no. of axle(s) with TRISTOP spring brake actuators no. of bogie axle(s) nf =

nq no. of bogie axle(s)

reference values

reference values for z = 50% for max rdyn: 421 mm

| | pz [bar] | T [N] | T [N] |
|--------|------------|---------------|---------------|
| axle î | 1.0 6.4 | 5095 47206 | |
| axle 2 | 1.0 6.4 | 5095 47206 | |
| axle 3 | 1.0 4.3 | | 4897 25827 |
| axle 4 | 1.0 4.3 | | 4897 25827 |
| axle 5 | 1.0 4.3 | | 4897 25827 |

VIN - no.:

| | | Axl | e(s) / Achs | e(n) | |
|---|-------|-------|-------------|---------|-------|
| brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest) | 20./ | 20./ | T.14/24 | T.14/24 | 14./ |
| Maximum stroke smax =mm maximaler Hub smax =mm | 65 | 65 | 64 | 64 | 64 |
| Lever length =mm Hebellänge =mm | 69.08 | 69.08 | 69.08 | 69.08 | 69.08 |

| 50000 | т[и]+ ↑ | + | * | + | * | + | + | + | + | + | +2; | * | * | + | 4 |
|-------|-------------------------------|----------------|-----|--------------------|------------|-----------------|----------|--------------|------------|--------------------|-----|---------------|-----|--------------|------------|
| 47500 | axle/Ac | chse Z | | - | #: | g/ p | + | . • | + | + | + | j. † | 1. | 9.5 | * |
| 45000 | axle/Ad axle/Ad axle/Ad | chse 4 | - | | + | 4 | + | + | + | + | + | 1 | + | + | + |
| 42500 | + | 142 | +. | i di e: | + | À. | +` | + | • | $\hat{\sigma}_{i}$ | +/ | / + | + | Atto. | + |
| 40000 | + | + | * | 45 | + | + | + | + | + | (+ 5) | F | | * | +17 | * |
| 37500 | † | , + , . | ÷ | + | + | +: | • | + | + | +/ | | • | + | +: | * . |
| 35000 | + | 2 + -1 | + | · (4) | + | | + | *+ | + / | 1. | + | | + | | + |
| 32500 | ÷ | + | + | 4 | + | + | + | * | 1 | 4 | + | 4 | + | + | + |
| 30000 | + | .+- | + | ;+>. | * | ; + } | + | +/ | / + | -+ | * | 9 + 1 | * | ş a ş | * |
| 27500 | + | 45. | + | *** | + | * ** | ÷ , | /+ | * | + | * | + | * | +: | + |
| 25000 | + | 2 t 2 " | + | +- | +. | +.0 | 7 | +," | + | (*.) | • | + | +, | + | +. |
| 22500 | + | +- | 4: | *4 | * | +/ | 1., | /·+ | + | ** | ** | 4 | + | + | + |
| 20000 | + | + | 4. | 4 | 4 | /+ | ,4 | | + | 4 | 4 | 4 | + | 4 | 4. |
| 17500 | + | ** | *1 | 14.5 | +/ | . * | + | 4: | + | 844 | 41 | 4 | 4 | 44 | + |
| 15000 | + | + | +; | + / | / 5/ | + | * | + | * | + | • | + | + | + 1/2 | * |
| 12500 | + | ** | + | 1. | + | 4 | + | * | + | 4: | + | (4 -) | + | 4-) | + |
| 10000 | + | 4 | +// | /+ | + | + | + | * | + | • | + | + | + | + 8 | + |
| 7500 | +: | + / | 1/+ | 3 4 50 | + | | + | (4) | + | + . | • | + | + | + | + |
| 5000 | +: | 11 | + | * | Ť | - 4 *** | . | * | Ť | • | * | + | + | + | ť |
| 2500 | +. | + | + | + | + : | / + - | *: | + | +: | + | ±. | p + 3 | + | + | + |
| | L . | | | | | | | | | | | | | pz | [bar] |
| | 0 0.5 | ı | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 | 5.5 | 6 | 6.5 | 7 | 7.5 |

Job No

JH211209

Vin No

7A9E25013M2023113



Suspension pressures for vehicle VIN#

WEIGHT

BAG PRESSURES

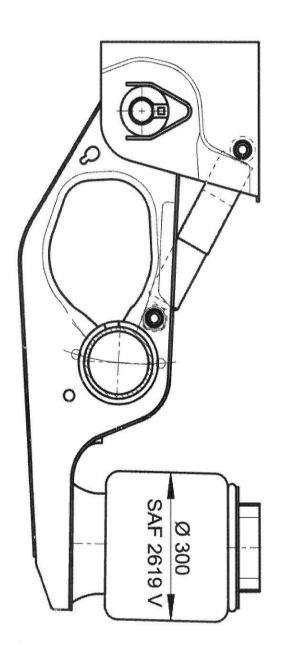
MAKE

SUSPENSION

7A9E25013M2023113

FRONT UNLADEN
REAR UNLADEN
FRONT LADEN
REAR LADEN

| 6350 | 8000 | 1800 | 2400 |
|---------------|---------------|---------------|---------------|
| 3.96 | 5.10 | 0.82 | 1.24 |
| SAF_AIRSPRING | SAF_AIRSPRING | SAF_AIRSPRING | SAF_AIRSPRING |
| 2619, 300mm | 2619, 300mm | 2619, 300mm | 2619, 300mm |









NEW ZEALAND HEAVY VEHICLE BRAKE RULE 32015-5 WORKSHEET, PROCEDURE DOCUMENTATION SHEET & CONFIRMATION OF COMPLIANCE

| CLIENT. | * * * * * * * * * * * * * * * * * * * | | r36 |
|---------------------------|---------------------------------------|--------------------|--|
| MANUFACTURER: | | DOMETT TRAILERS | |
| ADDRESS: | TAURIK | URA DRIVE, TAURANG | A 3110 |
| FLEET: | CA | ARMICHAEL TRANSPOR | - Income of the control of the contr |
| VEHICLE DETAILS | | | |
| VEHICLE TYPE: | 5AFT LIVESTOCK | CERT #: | JH211209 |
| YEAR: | 2021 | CALCULATION #: | TP52336 |
| MAKE: | DOMETT | REGO #: | N/A |
| MODEL: | E2501 H | LT400 #: | 800408 |
| CHASSIS #: | 2113 | ORDER #: | 8330 |
| VIN #: | 7 A 9 E 2 5 0 1 3 M 2 0 2 3 | 113 | |
| GVM: t | 32 | PRIME MOVER: | EBS / EUROPEAN |
| LOAD CONFIGURATION: | UNIFORM DENSITY | | |
| GROUP RATINGS: t | FRONT | REAR | |
| | 16 | 19 | |
| WHEEL BASE: m | 6.49 | | |
| | UNLADEN COG m | MAX HEIGHT m | HEIGHT DECK m |
| | 1.486 | 4.3 | 0.995 |
| COG: m | 2.277 | | |
| | FRONT | REAR | TOTAL |
| TARE: t | 4.8 | 5.4 | 10.2 |
| | FRONT | REAR | |
| TYRE SIZE: | 265 70 R19.5 | 265 70 R19.5 | |
| ROLLING CIRCUMFERENCE: mm | 2645 | 2645 | |
| AXLE SPACING: m | 1.31 | 2.51 | |

| BRAKE & AXLE DETAILS | | • | | |
|------------------------------|------------|---|-----------------------|----------------------|
| | Г | MAKE | MODEL | TEST REPORT |
| AXLE: | L | SAF | SAF-ZI9W | TDB0749 |
| POLE WHEEL FRONT: | | 90 | POLE WHEEL REAR: | 90 |
| LINING MATERIAL: | | JURID 539 | BRAKE FACTOR: | 23.03 |
| SENSED AXLES: | | 2 + 4 | | NOTES: |
| SERIAL NUMBERS: | 1 | N// | Д | NG-IU28-ZI9-19W |
| | 2 | N// | Ą | NG-IU28-ZI9-19W |
| | 3 | N// | Ď, | NG-IU28-ZI9-19W |
| | 4 | N// | Α | NG-IU28-ZI9-19W |
| | 5 [| N// | Λ | NG-IU28-ZI9-19W |
| CHAMBER AND VALVING DETAILS | S : | | • | |
| CHAMBERS: | | AXLE 1 & 2 | AXLE 3 & 4 | AXLE 5 |
| BRAND: | [| TSE_CHAMBERS | TSE_CHAMBERS | TSE_CHAMBERS |
| SIZE: | [| 20HSCLD | 1416HTLD | 14HSCLD |
| STROKE: mm | | 65 | 64 | 64 |
| TEST REPORT #: | [| BC 0041.0 Jul '07 | BC0143.0 | BZ 122.1 Sep '00 |
| SPRINGBRAKE FORCE: kN | | N/A | 6.16 | N/A |
| HOLDOFF PRESSURE: Bar | | N/A | 4.8 | N/A |
| FOUNDATION BRAKE: | [| WABCO PAN19 | WABCO PAN19 | WABCO PAN19 |
| LEVER LENGTH: mm | | 69 | 69 | 69 |
| BRAKE VALVES: | | MAKE: | PART NUMBER: | PM PRESS. kPa |
| ECU PART #: | [| WABCO | 480 102 08. 0 (MV) | 80 kPa |
| 3RD MODULATOR #: | | WABCO | 480 207 202 0 (12V) | 80 kPa |
| ANTI-COMPOUNDING: | | YES | | |
| SPRING BRAKE RELAY: | | SEALCO_SBR | 110701 | |
| YARD RELEASE VALVE: | | SEALCO_YR | 17600B | |
| INLINE RELAY FITTED: | | N/A | N/A | |
| ECU DIRECTION: | 1 | FRONT REAR | FRONT FRICTION: μ | 0.49 |
| SUBSYSTEMS: | J | SMARTBOARD □ C | DPTI-LINK □ CAN | ROUTER 446 122 050 0 |

□ ELEX 446 122 070 0

☐ TAILGUARD

Page 2

SUSPENSION

PRESSURE PROTECTION:

| | FRONT | REAR |
|------------------------|--|---------------|
| SUSPENSION TYPE: | PNEUMATIC | ELECTRONIC |
| MAKE: | SAF_AIRSPRING | SAF_AIRSPRING |
| MODEL: | SAF_INTRA | SAF_INTRA |
| BELLOW SIZE: | 2619, 300mm | 2619, 300mm |
| HEIGHT CONTROL VALVE: | HALDEX 90554950 | 441 050 100 0 |
| OTHER VALVES: | N/A | N/A |
| RIDE HEIGHT mm: | 280 | 280 |
| HANGER HEIGHT mm: | 200 | 200 |
| PEDESTAL HEIGHT mm: | 50 | 50 |
| LIFTAXLE: | | 5TH AXLE |
| TIPPING DUMP SWITCH: | | N/A |
| LIFTAXLE VALVE: | | 472 195 052 0 |
| PRESSURE LIMITING: | | N/A |
| AIR TANKS | 90 S P P P P P P P P P P P P P P P P P P | |
| AIR TANKS STANDARD: | SAE J10A / | EN286-2 |
| | FRONT | REAR |
| BRAKE TANK SIZE: L | 46 | 46 + 25 |
| AUXILLARY TANK SIZE: L | N/A | 46 |

| AIR LINES | Selven in the leaves | | |
|------------------------|----------------------|----------------|-----|
| TEST POINTS: | | | |
| CONTROL LINE: | X 1 | TANK: | X 1 |
| REAR CHAMBER: | X 2 | FRONT CHAMBER: | X 1 |
| DUOMATIC COLOUR CODED: | YES | | |

WABCO PEM: 461 513 002 0

| ELECTRONIC HEIGHT SENSOR CALIBRATION | | | | | |
|---|--------------------------------|---|-------------|--|--|
| | TIMER TICKS [F/R] | MILLIMETRE [F / R] | | | |
| UPPER LEVEL: | | | | | |
| NORMAL LEVEL: | | / 260 | | | |
| LOWER LEVEL: | | | | | |
| | Va. | | | | |
| CHECKS AT COMMISSION OF VEH | UCLE. | and proof Coffee beautiful Section 19 | | | |
| CHECKS AT COMMISSION OF VEH | IICLE | 100 100 100 100 100 100 100 100 100 100 | 40.200 | | |
| CHAMBER BUNGS REMOVED: | | VALVE MOUNTING: | | | |
| ECU BLANKING PLUGS CHECKED: | | | | | |
| RESPONSE TIME: | MODULATOR 2.1 | MODULATOR 2.2 | RELAY VALVE | | |
| ms: | | | | | |
| NOTES AND SPECIAL CONDITION: | S jadasahija kabupat na Walawa | | | | |
| FILES RECEIVED: 06.12.21 | | | | | |
| FILES CREATED: 06.12.21 FILES SENT: 06.12.21 (SWI) | | | | | |
| FILES RETURNED AS COMPLETE: | | | | | |
| | | | | | |
| REASON FOR CERTIFICATION: | NEW TRAILER BUILD | | | | |
| I UNDERSTAND AND DECLARE THAT I AM THE CERTIFIER IDENTIFIED BELOW AND HOLD A CURRENT VALID APPOINTMENT. I CERTIFY THAT AT THE TIME OF INSPECTION THE ABOVE MENTIONED VEHICLE COMPONENT DESIGN AND THIS CERTIFICATION COMPLIES IN ALL RESPECTS WITH THE LAND TRANSPORT RULE VEHICLE STANDARDS COMPLIANCE 2002 AND MY DEED OF APPOINTMENT. TO THE BEST OF MY KNOWLEDGE THE INFORMATION CONTAINED IN THIS CERTIFICATE IS TRUE AND CORRECT. | | | | | |
| NEW ZEALAND HEAVY VECHLE BRAKE RULE 32015/5, SCHEDULE 5. | | | | | |
| DATE: | 6/12/2021 | | | | |
| SIGNED: | | <i>y</i> | | | |
| CERTIFIER NAME & ID: | WILLIAM SINCLAIR | SWI | | | |
| SODC BY: | JOHN HIRST | JEH | | | |
| PHONE (BUS): | 09-980-7300 | | | | |
| FAX: | | | | | |
| POSTAL ADDRESS: | P.O. Box 98-971, Manuka | u 2241 | | | |

New Zealand

NOTICE TO VEHICLE OPERATOR

This trailer is equipped with an Electronic Brake System.

To comply with the New Zealand Heavy Vehicle Brake Rule, it must be used only in conjunction with a truck/tractor equipped with an ISO 7638, 5 or 7 pin ABS/EBS power supply socket.

Failure to connect to such supply invalidates Brake Rule compliance.

The trailer ABS/EBS warning light on the towing vehicle dashboard must illuminate when the ignition is switched on and extinguish when the vehicle is in motion.

If the light does not illuminate when ignition is switched on, the system must be checked. If the light remains illuminated when the vehicle is in motion, Brake Rule compliance is compromised. Repairs must be made as soon as possible.

NB;

If this vehicle is fitted with mechanical (spring) suspension, the load sense valving has been adjusted to suit exactly the performance of the original springs. In event of replacement being required, original equipment springs **must** be fitted to ensure correct ongoing operation. Fitment of non genuine springs can affect operation and therefore, compliance.

If you are unsure of your responsibilities and/or obligations. please contact either the vehicle manufacturer or myself.

WILLIAM SINCLAIR

HVEK / 09-980-7300

NOTICE TO VEHICLE OPERATOR

THIS VEHICLE HAS A BRAKE SYSTEM WHICH HAS BEEN DESIGNED AND FITTED IN ACCORDANCE WITH THE NEW ZEALAND HEAVY VEHICLE BRAKE RULE 32015/5:

SCHEDULES.

IF THIS VEHICLE IS OPERATED IN CONJUNCTION WITH NON-CODED VEHICLES, THERE MAY BE OPERATIONAL FACTORS WHICH NEEDTO BE TAKEN INTO CONSIDERATION. PLEASE REFER TO THE CERTIFIER FOR FURTHER INFORMATION.

EXCERPT FROM NZ HEAVY VEHICLE BRAKE RULE 32015/5

10.1 Responsibilities of operators

A person who operates a vehicle must ensure that the vehicle complies with this Rule.

10.2 Responsibilities of repairers

A person who repairs or adjusts a brake must ensure that the repair or adjustment:

- (a) does not prevent the vehicle from complying with this Rule: and
- (b) complies with Land Transport Rule: Vehicle Repair 1998.

10.3 Responsibilities of modifiers

A person who modifies a vehicle so as to affect the braking performance of the vehicle must:

- (a) ensure that the modification does not prevent the vehicle from complying with this Rule; and
- (b) notify the operator that the vehicle must be inspected and, if necessary, certified by a person or organisation appointed to carry out specialist inspection and certification of heavy vehicle brakes.

10.5 Responsibilities of manufacturers and retailers

A person may manufacture, stock, or offer for sale a brake or its components, intended for fitting to a vehicle to be used on a New Zealand road, only if that brake or component:

- (a) complies with this Rule; and
- (b) does not prevent a repair to a vehicle, its structure, systems, components and equipment from complying with this Rule.

IF YOU ARE UNSURE ABOUT YOUR RESPONSIBILITIES, PLEASE CONTACT THE VEHICLE MANUFACTURER, OR MYSELF.

COMPLAINTS. Complaints and Warranty issues which relate to Brake Certification will be acknowledged within 7 working days and a resolution proposed within 25 working days. Resolution of complaints and Warranty issues is subject to Transpecs Warranty policy. Customers have the right to appeal to the NZ Transport Agency if dissatisfied with a Compliance issue. (refer NZTA Deed Of Appointment Para 47.4)

NZ Transport Agency Helpdesk 0800 699 000

NZ Transport Agency I SWI

HVEK

(09 980 7300)



Gough Transpecs Corner Kerrs & Ash Roads, Wiri PO Box 98 971, Manukau City, NZ 2241 Phone (09) 980 7300 Fax (09) 980 7306 transpecs.co.nz



Service Bulletin

Wabco Welding Warning

From:

John Hirst, OE Braking Product Manager

Ref:

JH-TSL-091115

Date:

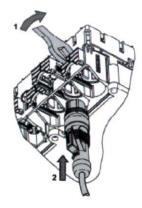
9 November 2015

NB: Any sort of arc welding can cause damage to an ECU fitted to a trailer. The inverter that we supply is also susceptible to damage from welding arcs.

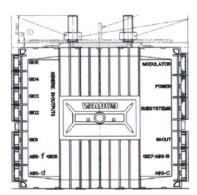
Prevention is less costly that the cure.

Please follow the following recommendation from Wabco for all ABS and EBS models:

- Remove all the main power cables and diagnostic cables from the ECU as they have non interchangeable connections.
- Leave the sensor cables that are plugged into the ECU and disconnect them at the wheel end. This
 will cover the protection against welding, and at the same time will prevent mixing them up at the ECU
 end.



Above: Wabco TEBS E Modulator – Plugs and dismantling of cables and protective caps.



Above: Diagram of a Wabco ECU.